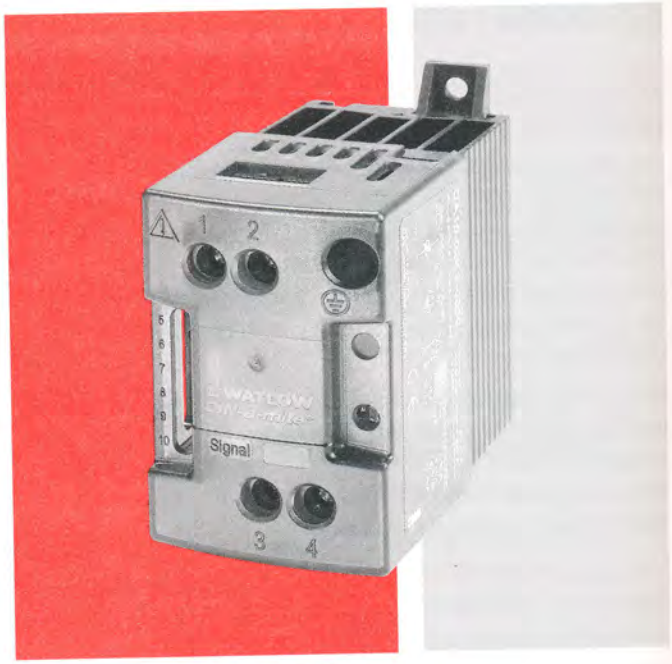
DIN-A-MITE® A

The DIN-A-MITE® A power controller is designed and manufactured with quality features expected from Watlow. DIN-A-MITE A capabilities include single-phase zero-cross switching up to 25 amperes at 600VAC (see rating curve). A unique integrated design removes the guesswork associated with selecting a proper heat sink and adequate terminations for the application. DIN-rail and back panel mounting is standard on this family of controllers. The DIN-A-MITE is also mercury free.

Variable time base, 4-20mA process control or VAC/VDC input contactor versions are available. All configurations are model number dependent and factory selectable. This power controller includes 200KA short circuit current rating (SCCR) tested up to 480VAC to prevent arch flash with required fusing.



Features and Benefits

200KA short circuit current rating (SCCR)
- Prevents arc flash

DIN-rail or standard panel mount
- Provides versatility, quickness and low-cost installation

Compact size
- Reduces panel space and cost

Touch-safe terminals
- Increases safety for installer/user

Mercury free
- Environmentally safe

Faster switching with solid state
- Saves energy and extends heater life

UL® 508 listed, C-UL® and CE with filter
- Meets applications requiring agency approval

Back-to-back SCR design
- Ensures a rugged design

DIN-A-MITE A

Specifications

Operator Interface
- Command signal input
- Input indicator light LED

Amperage
- Single phase, see the output rating curve
- Max. I^2t for fusing: 4000A^2sec
- Latching current: 200mA
- Holding current: 100mA
- Power dissipation is 1.2 watts per ampere switched
- 200KA SCCR, Type 1 and 2 approved with the recommended fusing; see user manual

Line Voltage
- 20 to 660VAC model number dependent; see ordering information
- Off-state leakage: 1mA at 77°F (25°C) max.
- 50/60Hz independent

Control Mode-Zero Cross
- Input control signal Type C: VDC input contactor
- Input control signal Type K: VAC input contactor
- To increase service life on contactor input models, the cycle time should be less than three seconds
- Input control signal Type F: 4 to 20mA DC proportional variable time base control; 3 cycles on, 3 cycles off at 50% power

Input Command Signal
- AC contactor
  24VAC ±10%, 120VAC +10/-25%, 240VAC +10/-25% @ 25mA max. per controlled leg
- DC Contactor
  4.5 to 32VDC: max. current @ 4.5 VDC is 8mA
- Loop powered linear current 4 to 20mA DC: loop-powered, input Type F0 option only (requires current source with 6.2VDC available, no more than 3 DIN-A-MITE inputs can be connected in series)

Agency Approvals
- CE with proper filter:
  204/108/EC electromagnetic compatibility directive
  EN 61326-1: industrial immunity Class A emissions
  2006/95/EC low voltage directive
  EN 50178 safety requirements
  Installation category III, pollution degree 2
- c UL us LISTED UL® 508 listed and C-UL® File E73741

Input Terminals
- Compression: will accept 24 to 16 AWG (0.2 to 1.5 mm^2) wire

Line and Load Terminals
- Compression: will accept 18 to 8 AWG (0.8 to 8.4 mm^2) wire

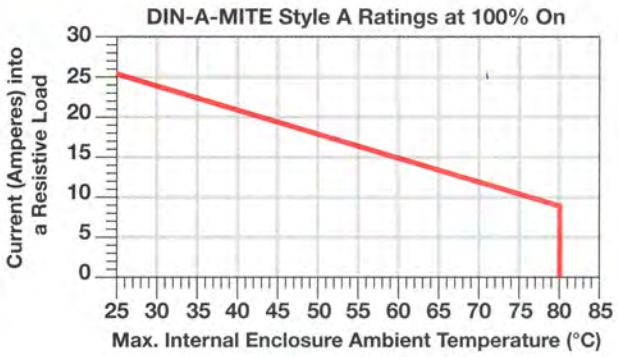
Operating Environment
- Up to 176°F (80°C); see the output rating curve chart for specific applications
- 0 to 90% RH (relative humidity), non-condensing
- Installation only tested to 3,000 meters
- Units are suitable for "Pollution degree 2"

Mounting
Options include DIN-rail or standard back panel mounting
- The DIN-rail specification is: DIN EN 50022, 1.3 in. (35 mm) by 0.3 in. 7.5 mm
- Mount the cooling fins vertically

Dimensions
- Height: 3.7 in. (95 mm) high x 1.8 in. (45 mm) wide x 3.9 in. (98 mm) deep
- Weight: 0.71 lb (0.32kg)

Specifications are subject to change without notice.

Output Rating Curve



DIN-A-MITE A

Ordering Information

Part Number

①	②	③ Phase	④ Cooling & Current Rating		⑤ ⑥ Line & Load Voltage	⑦ ⑧ Input Type		⑨	⑩ User Manual	⑪ ⑫ Custom Options
D	A	1	0	-			-	0		

③	Phase
1 =	1-phase, 1 controlled leg

④	Cooling and Current Rating
0 =	Natural convection current rating 18A @ 50°C (see derating curve for current rating at other temperatures)

⑤ ⑥	Line and Load Voltage
02 =	24 to 48VAC
24 =	100 to 240VAC
60 =	277 to 600VAC

⑦ ⑧	Input Type
C0 =	4.5 to 32VDC contactor
F0 =	4 to 20mA DC proportional
K1 =	22 to 26VAC contactor
K2 =	100 to 120VAC contactor
K3 =	200 to 240VAC contactor

⑩	User Manual
0 =	English
1 =	German
2 =	Spanish
3 =	French

⑪ ⑫	Custom Options
00 =	Standard parts

Recommended Semiconductor Fuse and Fuse Holder

	Watlow	Cooper Bussmann®	Ferraz Shawmut
Fuse	17-8025	FWC25A10F	L330014
Holder	17-5110	B24202	USM1I